



Clint Smith

Software Engineer

Profile

I'm a software engineer passionate about solving meaningful problems and delivering high-quality, maintainable solutions. As an individual contributor, I thrive in roles that focus on technical problem-solving and detailed challenges while collaborating with teammates to achieve shared goals.

I'm at my best in environments with clear priorities and well-defined objectives, where I can dive deep into technical work and contribute tangible results. I enjoy mentoring team members, sharing expertise, and delivering thoughtful, well-executed solutions that make a measurable impact.

My ideal workplace is collaborative, supportive, and focused on meaningful work. I value strong leadership, teamwork without ego, and opportunities to concentrate on the aspects of engineering I love most.

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Skills

Python
Django
Django Rest Framework
Go (Programming Language)
Backend Development
Celery
Microservices Architecture
Temporal
Postgresql
Git

Employment History

Sr. Backend Engineer at Included Health

October 2017 — November 2024

Note: I was an original employee of Doctor On Demand. We merged with Grand Rounds and rebranded as Included Health

Practice Management Engineering Team

Worked on the Practice Management engineering team to transition from legacy technology to a modern, microservice-oriented architecture. This project replaced an outdated in-house EHR with a third-party system, enabling integration and greater flexibility for future innovation.

- Designed and built Golang microservices to support core functionalities, such as appointment booking and patient creation.
- Developed Temporal workflows to handle complex integrations with the new EHR system.
- Implemented RPC endpoints for internal service-to-service communication, including modules for Appointments, Shift Management, and Practitioner Management.
- Created monitoring tools, including metrics and dashboards, to ensure system performance and reliability.

Clinical Engineering Team (at Doctor On Demand)

Over six years, played a key role in enhancing provider experience and patient outcomes by collaborating with product designers and engineers on the Clinical Engineering team. Built tools using Python, Django, and Django Rest Framework to empower providers in delivering optimal care.

- Integrated member health summaries into the system for patient prep using Python and Celery.
- Upgraded email systems from SendGrid to ExactTarget. Autocoded member medications and allergies using Python and Celery tasks.
- Serialized clinical data snapshots to the database on chart sign-off using Django Rest Framework serializers.
- Built a full-stack Provider Payment Report Generation tool using Python/Django, HTML/CSS, JavaScript, and S3 Storage.
- Delivered numerous updates to Lab Order handling, including partial reports and autorelease functionality.

System Stability and Mentorship

- Ensured system stability through on-call rotations, bug fixes, and delivering high-quality, well-tested Python and Go code.
- Supported junior engineers by providing guidance and sharing knowledge to foster their professional growth.

Software Engineer at Business Information Technology Solutions (BITS), LLC

October 2015 — October 2017

Subsequent Military Health Contracts

Surveyed and documented current innovation barriers in the Defense Health Agency. Alongside a small team, designed and implemented a prototype web application to reduce the startup overhead often associated with new development teams.

Prototype Microservices Implementation

Implemented prototype microservices, utilizing Python and Falcon Framework. These microservices facilitated the integration of legacy clinical data and medical device data with modern FHIR Server based EHR systems like MHS Genesis and Cerner Millennium.

Software Engineer at THAOINC

October 2014 — September 2015

In the capacity of Software Engineer at THAOINC, the primary focus was on the Optimal Vision Care Prototype (OVCP). Collaborating with healthcare professionals led to significant improvements in the prototype design. The implementation of a structured data entry control streamlined data handling and enhanced user experience.

- Worked closely with physicians to refine design methodologies based on user feedback.
- Introduced a structured input mechanism that improved data entry efficiency and accuracy.
- Facilitated usability testing, leading to a remarkable 66% improvement in user satisfaction scores.

Software Developer at HNu Photonics

June 2012 — October 2014

Investor Engagement: Improved investor appeal for acquired microfluidics technology by enhancing legacy C# code, adding features, and optimizing functionality to showcase its potential.

Technology Design Enhancement: Collaborated with scientists and engineers to identify and address design limitations in microfluidics technology through experimentation.

Software Development Practices: Established structured software development methodologies to boost efficiency and productivity within the company.

Software Developer at Dynamic Concepts

August 2011 — May 2012

Meeting Delivery Time: Contributed to meeting the delivery time of a Plasma Etching control system by documenting interfaces and collaborating with the Architect to complete the UI using C#. This ensured timely delivery of the project while maintaining high standards of quality and functionality.

Elevated Company Image: Showcased and elevated the company image by developing a new website that reflected the professionalism of the organization. The website design emphasized the company's brand identity and enhanced its online presence, leaving a positive impression on visitors.

Security Systems Technician at Security Tech, Kīhei, HI

January 2011 — September 2011

Exemplary Customer Care: Provided outstanding customer service by seamlessly installing, repairing, and maintaining residential and commercial security systems, with a specialized focus on sophisticated security camera systems. Managed all aspects of the process, from running wiring in new and existing structures to programming, setup, and thorough demonstrations for customers.

Technical Expertise and Communication: Utilized technical expertise to program and configure systems, ensuring optimal functionality and performance. Effectively communicated complex concepts to customers during demonstrations, empowering them to maximize the benefits of their security systems.

Respectful Resolution: Demonstrated adeptness in handling challenging situations with grace and professionalism, effectively addressing concerns and satisfying even the toughest customers while upholding respect and integrity.

Software Developer Consultant at Adaptive Technologies Corp, Kīhei, HI

January 2009 — January 2011

Enhanced Battery Metrics Legibility: Crafted a cross-platform solution using C++ and Qt to parse serial data from a Battery Management System, significantly improving the legibility of battery metrics. The user-friendly interface streamlined data interpretation for enhanced usability.

Radiometric Simulation Streamlining: Streamlined complex radiometric simulation

calculations from a cumbersome spreadsheet to a user-friendly interface.
Introduced a cross-platform C++ library that revolutionized the calculation process, enhancing efficiency and accessibility.

Mobile Application Developer (iOS) at Launchcore, Inc., Kīhei, HI

August 2008 — January 2009

Swiftly acquired expertise in mobile development and collaborated with content creators to successfully launch two engaging mobile gaming applications for children within a span of six months:

- ▯ Jingle Jumble
- ▯ Jumbalu Zoo

Utilized Objective-C and the iOS Development platform for development. Skills and technologies include: Objective-C Programming, iOS SDK, Xcode IDE, App Store Deployment, Apple Sound Libraries, User Interface Design, Collaboration and Communication

Software Developer at Textron Defense Systems, Kīhei, HI

June 2004 — June 2008

- Supported contracts with UI development: Using Microsoft Foundation Classes (MFC), C++, and TCL, supported contracts by developing UI applications to control optical systems, including modifying C DLLs to integrate VxWorks realtime system with LabView frontend, mirror automation, photon detection sensor systems, and automatic camera gain control.
- Successfully replaced signal digitizers: Having no prior experience with embedded hardware, successfully replaced signal digitizers with a Pentek product and integrated them into a sophisticated data acquisition system used for laser radar operations.
- Improved Laser Safety System by reprogramming the PLC Ladder Logic.

Sr. Electro-Optic Technician at Textron Defense Systems, Kīhei, HI

February 2000 — June 2004

- Ensured the success of our team missions by performing maintenance and operation of all systems pertaining to satellite missions with a CO2 Laser Radar system.
- Duties included laser alignment, alignment of complex optical systems used in the receiver, laser maintenance, system operation, and data gathering.

Laser Service Engineer at Trumpf, Inc., Dallas, TX

October 1997 — December 2000

Installed, maintained, and repaired multiple-kilowatt CO2 Laser Cutting Systems at customer sites nationwide. Led installation processes, including directing riggers, anchoring, unpacking, re-energizing, alignment, testing, and providing on-site customer training.

Engaged in extensive customer interaction, fostering strong relationships and managing expectations regarding project timelines and completion dates. Traveled to customer sites to troubleshoot and resolve issues, ensuring maximum productivity and satisfaction.

Manufacturing Technician at Intel, Chandler, AZ

September 1996 — October 1997

Meticulously operated die attach machines and cure ovens, which were a vital precursor to adhering the delicate chips, sourced from sawn wafers, onto packages before wire bonding.

Embraced the challenge of nightly shifts lasting up to 12 hours, ensuring the seamless execution of each step in the assembly process.

Education

Regis University at Denver, CO

January 2016 — January 2018

Continuing Education in Computer Science

Completed extensive coursework in computer science, including programming, algorithms, data structures, and software development. Focused on building a strong foundation in core concepts and practical applications.

Texas State Technical College at Waco, TX

Associate's Degree

January 1994 — December 1996

Laser Electro-Optics

Specialized in the principles and applications of lasers, optics, and electro-optical systems. Gained hands-on experience in laser alignment, optical systems, and advanced technologies used in industrial and research settings.